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By: Nancy Ramos Printed: Nancy Ramos



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Roopa Reddy, Y. Tom Tang, Mariah R. Baughn, Randi E. Krasnow

Title: ASIP RELATED PROTEINS

Serial No.: To Be Assigned

Filed: Herewith

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

Commissioner for Patents
Box Sequence
Washington, D.C. 20231

SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR §1.821- 1.825, Applicants hereby submit one (1) diskette containing the computer-readable information for the "Sequence Listing" of the above-identified application. The diskette complies with the requirements of 37 CFR §1.824 and is IBM PC compatible using a UNIX operating system with PERL Program.

Accompanying the application is the paper copy of the Sequence Listing as disclosed in the application.

The content of the "Sequence Listing" paper copy is identical to the computer readable copy, as required under 37 CFR § 1.821(f).

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: January 9, 2001

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PC-0032 US

<110> Reddy, Roopa
Tang, Y. Tom
Baughn, Mariah R.
Krasnow, Randi E.

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<140> To Be Assigned

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<400> 5

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gcctgctggg tgagctcgcc gacgcgcagc tggccctcct tgcagggcac cacgatgcc 480
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<210> 6

<211> 588

<212> DNA

<213> Homo sapiens

<220>

PC-0032 US

<221> misc_feature

<223> Incyte ID No: 70158486V1

<400> 6

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agcacacttg gagatttcat tgcctggcgg aagacatctt gagcctgagc aaagggtttg 180
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actgttcttg tcatatcact caatgtgtcc ttagttcttg gcgaagttag tagttctgtc 420
tgtacaccat tcaaaacttc tctgtcttcc aagttctgcg tggaatctgg aacaaccagt 480
ttcagactct ggccaccagg gtgtgaagcg cttggctggg tatcagcagg tgggcctggc 540
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<210> 7

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70162686V1

<400> 7

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gtgagggaga ggatggtttt cctcccagcc ttggtactcg gggactcttg ttttgttgca 180
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acgtggagga gcacacttgg agatttcatt gcctggcgga agacatcttg agcctgagca 420
aagggtttgt ctacgagatc cacattgttg attttttcaa tacattcatt ttcgggaaat 480
a
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<210> 8

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70151326V1

<400> 8

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agagatgtca ctggacgaac ccaggaagag cttgtggcca tgctcaggag caccaagcag 180
ggggagacag catcgctggt cattgcccgc caagaaggac attttctgcc ccgagagttg 240
aaaggagaac ctgactgctg tgcactctct ctggagacaa gcgagcagct cacctttgag 300
aatccccctg gatgattcag gttctgctgg cctcggggtg agcttaaaag ggaac 355
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<210> 9

<211> 417

<212> DNA

<213> Homo sapiens

PC-0032 US

<220>

<221> misc_feature

<223> Incyte ID No: 70154198V1

<400> 9

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agtgccaaagt ggatgcagga tactattatc atttcgccta gaggtgggta cagcattttg 180
acagttctca aagcatggct tggaaaatgc cccacactct gcaggatcct ccattgggtct 240
ctctggcctc ctcagaatca ccaactggat catccctcgg atggttccct ccatggacat 300
tggccgccta agtgtttcca tagcttcgtg gttggacttc ccaaagaga ttccccatta 360
cggcaatcac tggtcattca tttgcagacg accatccttt aaagcagcgc cttcacg 417
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<210> 10

<211> 537

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2084238T6

<400> 10

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tcagagctcc ttggccagag tgagagctct tatcagacag accgtcagct tctatttctt 180
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gaaccatgtg cggccggggc ctgtgaaagg gaaggctcatt cttcctgacc tcggccactg 300
cagtctgcag actctccaag gagctggact ttttcaaacc cagagttgga caaaatctt 360
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ggtccatgct cttcagggtt ttcaaattaa ttgattcagg ctgctggccg gtgtcacaga 480
tctgaagttg atgtgctgat ctggaaaata tactgctgaa tccacccag agtgtgg 537
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<210> 11

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70155923V1

<400> 11

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ctctagctcc gaattccctt gaggggcaga ctcacaattc agagctcctt ggccagagtg 180
aaagctctta tcagacagac cgtcagcttc aatttcttaa ggtccatcgt aggatttgca 240
aatggctgct ctaaagctct cattgaagcc tcggcctcga accatgtgcg gccggggcct 300
ttgaaaggga aggtcattct tcctgacctc ggccactgca gtttgacagac tctccaagga 360
gctggacttt tctaaaccca gagttggccc aaaatctttg cttggaaatt ccgatttttg 420
tccagccaat gagtgaacct tgctttcatc tggcaccagg tccatgcctt tcggggcctt 480
caaattaatt ggattcag 498
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<210> 12

<211> 498

<212> DNA

PC-0032 US

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702457609T1

<400> 12

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aggtccatgc tcttgagggc tttcagggtta attgattcgg gctgcccagac gtggtgtcac 420
aattctgaaa ttgacatggt gatctggaaa atatcctgtg gaatccactc tagagctgtg 480
actgaagtct tcaaggcc 498
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<210> 13

<211> 460

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702458746T1

<400> 13

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gtgtggtctg ggtctgtgga agggcagatc attcttcctg acttcagcca cagcagtctg 180
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gctcttgagg gctttcagggt taattgattc gggctgccc actggtgtca caattctgaa 360
attgacatgt tgatctggaa aatatcctgt ggaatccact ctagagctgt gactgaagtc 420
ttcaaggccc cattccagac tgggatgtgg tggcggggac 460
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<210> 14

<211> 245

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701335936H1

<400> 14

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ggtcccattt ttgtaaaaaa tctcctacca aaggagcag cagtaaagga tggccgccta 120
caatcaggag acagaatttt agaggtaaag ggcagagatg tcacaggaag aaccaggaa 180
gaacttgtgg ccatgctgag gagcactaag caggagaga cggtatcact ggtcattgcc 240
cgcca 245
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<210> 15

<211> 260

<212> DNA

<213> Rattus norvegicus

PC-0032 US

<220>

<221> misc_feature

<223> Incyte ID No: 700639694H1

<400> 15

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gccgggggctg caatgagagc ttccgagcag ccattgacaa atcttacgac gggccagaag 180
aggcagaagc tgatggTctg tctgataaga gctctcgctc gggccacaca gctctgaatt 240
gtgagtctgc ccctcaggga                                     260
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<210> 16

<211> 211

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 700639694F6

<400> 16

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tctgataaga gctctcgctc gggccacaca gctctgaatt gtgagtctgc ccctcaggga 180
aaccctgagc tagatgatgt ggaaaaataaa g                                     211
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<210> 17

<211> 276

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701191467H1

<400> 17

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tgaagtaccg ccgtccccgc caccacatcc cagtctggaa tggggccttg aagacttcag 120
tcacagctct agagtggatt cacaggatat tttccagatc accatgtcaa tttcagaatt 180
gtgacaccag tcgggcagcc cgaatcaatt aacctgaaag cctccaggag catggacctt 240
gtgccagacg aaagcaaagt ccagtcactg gctgat                                     276
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<210> 18

<211> 555

<212> DNA

<213> Canis familiaris

<220>

<221> misc_feature

<223> Incyte ID No: 702771158H1

<400> 18

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caggccccga gggggcagcc cagaccagta cccctaccgc gcccaggatc ccaggcagaa 120
gaaccccatg actgcagccg tgtagctgaa taccaccgag ctcagcccag cccagaaggg 180
cgacatctga catcaccttc gccctcccta gactcttaag gccttcctcc tgtccagaag 240
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PC-0032 US

```
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aaataccaat ggagacatag cacacggggc ctccctggcg tacaccattc ataactttctc 480
catcttctaa gttctgtgtg gaatctagaa taacagggtt cagactctgg ccactgggggt 540
gtgaagcact tggct 555
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<210> 19
<211> 257
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 701266650H1

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<400> 19
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ccaaaaggag cagcagtaaa ggatggccgc ctacaatcag gggacagaat tttggaggta 180
aatggcagag atgttacagg aagaacccaa gaagaactcg tggccatgtt aaggagcacc 240
aagcagggag agacagt 257
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<210> 20
<211> 5689
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2582063CB1

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PC-0032 US

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<210> 21
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2582063H1

```
<400> 21
cagcgggtggt ggcaggaagc tcactctcgc gtcagtatta gagtgtgtgt gtgggtctcg 60
gggatctcgg tggctcccat ctctcttcat tgttctgaac atcctgtatt gtaaaccatg 120
gctgggggtgc taaagtgcct gtgaatcccg atgtggaaaa agctggaggt gaaagctcag 180
cataccatgt atttacttta aaaacagaaa aaaagacatg tatggatatg tctatctttt 240
ttttattggg                                     249
```

<210> 22
<211> 549
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7246093H1

```
<400> 22
cccgggtggt cgtgccgtgc ggggacggcc acatgaaagt tttcagcctc atccagcagg 60
cggtgacccg ctaccggaag gccatcgcca aggatccaaa ctactggata caggtgcatc 120
gcttggaaca tggagatgga ggaatactag accttgatga cattctttgt gatgtagcag 180
acgataaaga cagactggta gcagtgtttg atgagcagga tccacatcac ggaggtgatg 240
gcaccagtgc cagttccacg ggtacccaga gccagagat atttggtagt gagcttggca 300
ccaacaatgt ctcagccttt cagccttacc aagcaacaag tgaaattgag gtcacacctt 360
cagtccttcg agcaaatatg cctcttcatg ttcgacgcag tagtgaccca gctctaattg 420
gcctctccac ttctgtcagt gatagtaatt tttcctctga agagccttca aggaaaaatc 480
ccacacgctg gtcaacaaca gctggcttcc tcaagcagaa cactgctggg agtcctaaaa 540
cctgcgaca                                     549
```

<210> 23
<211> 502

PC-0032 US

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7978420H1

<400> 23

```
ggggagccca gagatatttg gtagtgagct tggcaccaac aatgtctcag cttttcagcc 60
ttaccaagca acaagtgaag ttgaggtcac accttcagtc cttcgagcaa atatgcctct 120
tcatgttcga cgcagtagtg acccagctct aattggcctc tccacttctg tcagtgatag 180
taatttttcc tctgaagagc cttcaaggaa aaatcccaca cgctgggtcaa caacagctgg 240
cttcctcaag cagaacactg ctgggagtc taaaacctgc gacaggaaga aagatgaaaa 300
ctacagaagc ctcccgcggg atactagtaa ctggtctaac caatttcaga gagacaatgc 360
tcgctcgtct ctgagtgcca gtcacccaat ggtgggcaag tggctggaga aacaagaaca 420
ggatgaggat gggacagaag aggataacag tcgtgttgaa cctgttggac atgctgacac 480
gggtttggag catataccca ac                                     502
```

<210> 24

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 55040412H1

<400> 24

```
gctgtgcatg aagacgggac agaagaggat aacagtcgtg ttgaacctgt tggacatgct 60
gacacgggtt tggagcatat acccaacttt tctctggatg atatggtaaa gctcgcagaa 120
gtccccaaag atggaggggc tctgggaatc catgtagtgc ctttcagtgc tcgaggcggc 180
agaaccctgg ggttattagt aaaacgattg gagaaagggtg gtaaagctga acatgaaaat 240
ctttttcgtg agaatgattg cattgtcagg attaatgatg gcgaccttcg aaatagaaga 300
tttgaacaag cacaacatat gtttcgcca gcatgcgta caccatcat ttggttccat 360
gtggttctct cagcaataaa agagcagtat gaacaactat cccaagtga gaagaacaat 420
tactattcaa gccgttttag ccctgacagc cagtattattg acaacaggag tgtgaacagt 480
gcagggtctg acacggtgca gagagcacc cgactgaacc acccgctga gcagatagac 540
tctactcaa gactacctca tagcgcacac ccctcgggaa aaccaccatc cgctccatcc 600
tcatggacag c                                     611
```

<210> 25

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2929484F6

<220>

<221> unsure

<222> 405, 441

<223> a, t, c, g, or other

<400> 25

```
gagcaccctg actgaaccac ccgcctgagc agatagactc tctactcaaga ctacctcata 60
```

PC-0032 US

```
gcgcacacccc ctctgggaaaa ccaccatccg ctccagcctc ggcacctcag aatgtattta 120
gtacgactgt aagcagtggg tataacacca aaaaaatagg caagaggctt aatatccagc 180
ttaagaaagg tacagaagggt ttgggattca gcatcacttc cagagatgta acaatagggt 240
gctcagctcc aatctatgtg aaaaacattc tccccggggg ggcggccatt caggatggcc 300
gacttaaggc aggagacaga cttatagagg taaatggagt agatttagtg ggccaatccc 360
aagaggaagt tgtttcgtg ttgagaagca ccaagatgga aggantgtga gcttctggtc 420
tttcgccagg aagacgcttc nacccaaggg aactgaatgc ag 462
```

<210> 26

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5627320R8

<400> 26

```
acactgcgtg gttctctttt gaccggttac ctttgacact gacaccaagg cctgcagatc 60
ctgaatcatt aagtgggact tcaaattgtca gaaattccct ggtgccatca ggtgtaagaa 120
caatatcctc atcttctgct ttctgtttctt ttggaatctg catctggctt ggatctgcat 180
tcagttccct tgggtggaag gcgtcttcct ggcgaaagac cagaaggctc acagttcctt 240
ccatcttggg gcttctcaac agcgaaacaa ctctctcttg ggatttgccc actaaatcta 300
ctccatttac ctctataagt ctgtctcctg acttaagtcg gccatcctga atggccgccc 360
ccgggggaga atgtt 375
```

<210> 27

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3209128F6

<400> 27

```
cgccttccac ccaaggggaac tgaaagcaga agatgaggat attgttctta cacctgatgg 60
caccaggaaa tttctgacat ttgaagtccc acttaatgat tcaggatctg caggccttgg 120
tgtcagtgtc aaaggtaacc ggtcaaaaga gaaccacgca gatttgggaa tctttgtcaa 180
gtccattatt aatggaggag cagcatctaa agatggaagg ctctgggtga atgatcaact 240
gatagcagta aatggagaat ccctgttggg caagacaaac caagatgcca tggaaaccct 300
aagaagggtc atgtctactg aaggcaataa acgaggaatg atccagctta ttgttgcaag 360
gagaataagc aagtgcaatg agctgaagtc acctgggagc cccctggac ctgagctgcc 420
cattgaaaca gcgttggtat atagagaacg aagaatttcc cattccctct acagtgggat 480
tgaggggctt gatgaatcgg ccagcagaaa tgctggcctc agtaggataa tgggtgagtc 540
agg 543
```

<210> 28

<211> 220

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 349248H1

PC-0032 US

<220>

<221> unsure

<222> 167

<223> a, t, c, g, or other

<400> 28

```
aatatgcccc aagatgacac tgtcattata gaagatgaca ggttgccagt gcttcctcca 60
catctctctg accagtcctc ttccagctcc catgatgatg tggggtttgt gacggcagat 120
gctggctactt gggccaaggc tgcaatcagt gattcagccg actgctnttt gagtccagat 180
gttgatccag ttcttgcttt tcaacgagaa ggatttggac 220
```

<210> 29

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7019961H1

<400> 29

```
gtgcttcctc cacatctctc tgaccagtcc tcttccagct cccatgatga tgtgggggttt 60
gtgacggcag atgctggtac ttgggccaag gctgcaatca gtgattcagc cgactgctct 120
ttgagtccag atgttgatcc agttcttgct tttcaacgag aaggatttgg acgtcagagt 180
atgtcagaaa aacgcacaaa gcaattttca gatgccagtc aattggattt cgttaaaaca 240
cgaaaatcaa aaagcatgga tttaggtata gctgacgaga ctaaactcaa tacagtggat 300
gaccagaaag caggttctcc cagcagagat gtgggtcctt ccctgggtct gaagaagtca 360
agctcgttgg agagtctgca gaccgcagtt gccgaggtga ctttgaatgg ggatattcct 420
ttccatcgtc cacggccgcg gataatcaga ggcaggggat gcaatgagag cttcagagct 480
gccatcgaca aatcttatga taaacccgcg gtagatgatg atgatgaagg catggagacc 540
ttggaagaag acacagaaga cagttcacga tcagggagag agtctgtatc cacagccagg 600
atcaggcttc cac 613
```

<210> 30

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6303175H2

<400> 30

```
tgcgcatcta gaacaaagaa aagaagaaag atagagataa ggagaaggat aaaatgatag 60
ccaagaaggg aatgctgaag ggcttgggag acatgttcag gtttggcaaa catcgaaaag 120
atgacaagat tgagaaaacg ggtaaaataa aaatacagga atcctttaca tcagaagagg 180
agaggatacg aatgaagcag gagcaggaga ggattcaagc caaaactcga gaatttaggg 240
aacgacaag 249
```

<210> 31

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PC-0032 US

<223> Incyte ID No: 2549906F6

<220>

<221> unsure

<222> 137, 164, 463

<223> a, t, c, g, or other

<400> 31

```
aggagaagga taaaatgaaa gccaagaagg gaatgctgaa gggcttgga gacatgttca 60
ggtttggaac acatcgaaaa gatgacaaga ttgagaaaac gggtaaaata aaaatacagg 120
aatcctttac atcagangag gagaggatac gaatgaagca ggancaggag aggattcaag 180
ccaaaactcg agaatttagg gaacgacaag ctcgagagcg tgactatgct gaaattcaag 240
attttcatcg gacatttggc tgtgatgatg agttaatgta tgggggagtt tcttcttatg 300
aaggttccat ggctctcaac gctagacctc agagcccacg agaagggcat atgatggatg 360
ctttgtatgc ccaagtcaag aagccgcgga attccaaacc ctcacctgta gacagtaaca 420
gatcaactcc tagcaatcat gatcggatac agcgtctgag gcnagaattt cagcaagcaa 480
agcaagatga agatgtagaa g                                     501
```

<210> 32

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1945452H1

<400> 32

```
gttccatggc tctcaacgct agacctcaga gccacgaga agggcatatg atggatgctt 60
tgtatgcca agtcaagaag ccgcggaatt ccaaaccctc acctgtagac agtaacagat 120
caactcctag caatcatgat cggatacagc gtctgaggca agaatttcag caagcaaagc 180
aagatgaaga tgtagaagat cgtcggcgga cctatagttt tgagcaacct tggccgaacg 240
cacggccggc gacgcagagc gggcg                                     265
```

<210> 33

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2549906T6

<220>

<221> unsure

<222> 77, 194, 196, 441, 466

<223> a, t, c, g, or other

<400> 33

```
gttatttgcg tgctcaggaa tagaagggcc tccctttctc aggagtctga agtctgttca 60
gcctcgcaac ctgaganggg gaggggggca catcttgccg gaagggcccc ttgggagggg 120
cgtaactggg gtcctggact ttcttatacg agtcatagtt gctgggcccc tcggaaggag 180
gctgcttctt catnancgtc tccttcgcc tctgttcctg gcgaaggagc tcctgagttt 240
ccagcatgac cctggcggtg aagccatgtc ctcccaggta gccgttcctg gagccttggg 300
agctggagta cctgggggtc tctttggcac tctggaagcc ttccccaggg gagtagttct 360
gctcccaaga gtcctgggag accgagctgg catttttctt gctttgccga ggcagagagc 420
```

PC-0032 US

tgtactggcg ctgggcctgt ngggagtctc gcgctcctcc tgccgntgc

469

<210> 34

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 71009002V1

<400> 34

```
caggccagc gccagtacag ctctctgcct cggcaaagca ggaaaaatgc cagctcggtc 60
tcccaggact cttgggagca gaactactcc cctggggaag gcttccagag tgccaaagag 120
aaccccaggt actccagcta ccaaggctcc aggaacggct acctgggagg acatggcttc 180
aacgccaggt catgctggaa actcaggagc tccttcgcca ggaacagagg cggaaggagc 240
agcagatgaa gaagcagcct ccttccgagg ggcccagcaa ctatgactcg tataagaaaag 300
tccaggaccc cagttacgcc cctcccaagg ggcccttcg gcaagatgtg cccctctccc 360
cttctcaggt tgcgaggctg aacagacttc agactcctga gaaagggagg cccttctatt 420
cctgagcacg caaataacgg atgcttcatg tcgcgcaata aaagacattt tcctatgaag 480
acttgatttc cgggagtttt ttaaaaacct cgatgggtact atggagtata ctggtcgtgg 540
tatcagtgcc tttaagcg                                     558
```

<210> 35

<211> 632

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 71008521V1

<220>

<221> unsure

<222> 605

<223> a, t, c, g, or other

<400> 35

```
ttccccacac agagctgtgg tgactcaacc cacgtgtcag gaacaggacc gaacaagcgt 60
atgtataaac gcagaccagg atcatcactt tatttgtaat gttgagtcac aaggcagtta 120
caaaaggacc cccatggtga ccaaacaatg ttggactatg gcttagcttc tgtaatagga 180
tgaccgactc tcccgtcaca aagagctgag aaaggaaaga gaaaaccaca gtgatgacaa 240
agtacgacaa atggctgtgc tgtgaagtac cagaaagccc caatttttgg tgtatgtcgc 300
ccacttttcc tccaccagag actaagatgt catcccatag ctaagagAAC ttagaggagg 360
aaacagggcc gcacgtcatc ctccacttca ggtgaatttg tcactgcaag tgggtgcaggg 420
atgtttacaac caagccgcgg acaactcatg agtagggccg agattcctgg tactgtggag 480
aggcgcagag catatgaaca cctcaaacag atgattgtca cagggtggga aatccttcca 540
tgaaacagac acttgagaca tagtggcaaa gacattaagg ccttccattt ctttgcctac 600
accgnttaaa ggcactgata ccaacaacag aa                                     632
```

<210> 36

<211> 646

<212> DNA

<213> Homo sapiens

<220>

PC-0032 US

<221> misc_feature

<223> Incyte ID No: 71010168V1

<400> 36

```
cttcctagga gaatttcttt cttagctctc ccctcatgat agacacaggg ccaatggcag 60
gcccagcttc ccccggcagg agccactcct gtctcccacg ttccccacac agagctgtgg 120
tgactcaacc cacgtgtcag gaacaggacc gaacaagcgt atgtataaac gcagaccagg 180
atcatcactt tatttgtaat gttgagtcac aaggcagtta caaaaggacc cccatggtga 240
ccaaacaatg ttggactatg gcttagcttc tgtaatatga tgaccgactc tcccgtcaca 300
aagagctgag aaaggaaaga gaaaaccaca gtgatgacaa agtacgacaa atggctgtgc 360
tggtgaagta ccagaaagcc ccaatttttg gtgtatgtcg ccacttttct ctccaccaga 420
gactaagatg tcatcccata gctaagagaa cttagaggga gaaacagggc cgcacgtcat 480
cctccacttc aggtgaattt gtcactgcaa gtggtgcagg gatgttacaa ccaagccgcg 540
gacaactcat gagtagggcc gagattcctg gtactgtgga gaggcgcaga gcatatgaac 600
acctcaaaca gatgatgtcc caggggtggga aatccttcca tgaaac 646
```

<210> 37

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70090181V1

<400> 37

```
agctttcacc tccagctttt tccacatcgg gattcacagg caatttagca cccagcccat 60
ggttttacaat acaggatggt cagaacaatg aaggaagatg ggagccaccg agatccccga 120
gacccacaca cacactctaa tactgacgag agagtgaagt tcctgccacc accgctgtgg 180
gacccgaaaa tggtctctgt gtgatgtgta acggcttttc ctttgtcttt tatgtttcat 240
ggcagaacta cttaggagcg tggcatcgcc agtcagacat gcagtgtgtg gatgcattag 300
acaagcatca attgcctctg acttgaaaaa ccgtagagag cagatcaaaa tgactgtctg 360
gtttatctct gtcccattct gtgcccttcc tgacaagctg tcagaacaaa aactaattaa 420
aataattact aggatgtact gggccatgag ctcttcctag gagaaattct ttcttagctc 480
tcccctcatg atagacac 498
```

<210> 38

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6833928H1

<400> 38

```
cttgtcagga agggcacaga atgggacaga gataaaccag acagtcattt gatctgctct 60
ctacggtttt tcaagtcaga ggcaattgat gcttgtctaa tgcattccaca cactgcatgt 120
ctgactggcg atgccacgct cctaagtagt tctgccatga aacataaaaag acaaaggaaa 180
agccgttaca catcacacag agaacatttt cgggtcccac agcggtggtg gcaggaaagt 240
cactctcgcg tcagtattag agtgtgtgtg tgggtctcgg ggatctcggg ggctcccatc 300
ttccttcatt gttctgaaca tcctgtattg taaaccatgg ctgggggtgct aaagtgcctg 360
tgaatcccga tgtggaaaaa gctggagggt aaagctcagc ataccatgta ttacttttaa 420
aaacagaaaa aaagacatgt atggatatgt ctattttttt tttatgggca catgggtattt 480
ttgtgtggac ttgttttttag aaatgatgtg tccacacacg taccctgtgc tcttctgcat 540
ttctgtgtca tggctctggt tcttaatcac gt 572
```

PC-0032 US

<210> 39
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 70089663V1

<400> 39
gctcataagt agttctgcc tgaacataa aagacaaagg aaaagccgtt acacatcaca 60
cagagaacat ttctgggtcc cacagcgggt gtggcaggaa gctcactctc gcgtcagtat 120
tagagtgtgt gtgtgggtct cggggatctc ggtggctccc atcttccttc attgttctga 180
acatcctgta ttgtaaacca tggctgggggt gctaaagtgc ctgtgaatcc cgatgtggaa 240
aaagctggag gtgaaagctc agcataccat gtatttactt taaaaacaga aaaaaagaca 300
tgtatggata tgtctatttt ttttttattg gcacattgta tttttgtgtt gacttgtttt 360
tagaaatgat gtgtccacac acgtaccggt gtctcttctg catttctgtg tcatggttct 420
gtttcttaat cacgtgcggc ggtgtctaag tgggtgttacc agtgtacgcg cagtgcctt 480
ggatgacagt ggctcttgct cacagcctcc cctgagctgt gagacacagc tttctctgta 540
catatgcaac 550

<210> 40
<211> 514
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702231139H1

<400> 40
aagcaatttt caaatgccag tcaattggat ttcgttaaaa cacgaaaatc aaaaagcatg 60
gatttaggta tagctgacga gaactaaact caatacagt gatgaccaga gagcaggctc 120
ccccaataga gatgtgggac cctccttggg tctgaagaaa tccagctctt tagaaagtct 180
gcagacgggt gttgctgagg tgaccctgaa tgggaacatt cctttccacc gccacggcc 240
acgaatcatc cgaggaaggg gctgcaacga gagcttcaga gccgccattg acaagtccta 300
cgataagccc atggtgggat acgacgacga aggcattggag accttggag aagacacaga 360
agaaagttca aggtcagggg gggagtcctg gtccacgtcc agtgatcagc cttcctattc 420
tctggagaga caaatgaatg gagaccaga gaagaggac aaggcagaga agaaaaagga 480
caaagccgga aaggataaga agaaagaccg agag 514

<210> 41
<211> 544
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700273304F6

<400> 41
cctgaatggg aacattcctt tccaccgccc acggccacga atcatccgag gaaggggctg 60
caacgagagc ttcagagccg ccattgacaa gtcctacgat aagcccatgg tggatgacga 120
cgacgaaggc atggagacct tggagaaga cacagaagaa agttcaaggt cagggaggga 180
gtccgtgtcc acgtccagt atcagccttc ctattctctg gagagacaaa tgaatggaga 240
cccagagaag agggacaagg cagagaagaa aaaggacaaa gccggaaagg ataagaagaa 300

PC-0032 US

```
agaccgagag aaggagaagg ataaactgaa agccaagaag gggatgctga aaggcttggg 360
ggacatgttc agcctggcca aactgaagcc ggagaagaga tgaacagcat gccagactca 420
aactgtcttg gacagcaciaa gttgcacaat tgtttttttaa aagcacggtg tctgggctgt 480
ggctcagtc agagtgcctg cctgggtgtac acaaagccgt gggctcaatc cccagcacc 540
tata 544
```

<210> 42
<211> 272
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700330856H1

```
<400> 42
tagattcagc gggcaagtcc caggaggaag ttgtttccct gttgagaagc accaagatgg 60
aggggaccgt gagccttctg gtctttcgtc aagaagaggc tttccagcca agggaaatga 120
atgccgaacc cagccagatg cagagtccaa aagaaacgaa agccgaagac gaggacattg 180
ttctcacacc tgacgggtacc agggagtctt tgactttcga agttccactg aatgactcag 240
ggtctgcagg gcttggtgtc agcgtcaagg gg 272
```

<210> 43
<211> 300
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700273304H1

```
<400> 43
actgaatggg aacattcctt tccaccgccc acggccacga atcatccgag gaaggggctg 60
caacgagagc ttcagagccg ccattgacaa gtccctacgat aagcccatgg tggatgacga 120
cgacgaaggc atggagacct tggaagaaga cacagaagaa agttcaaggc caggagaggga 180
gtccgtgtcc acgtccagt atcagccttc ctattctctg gagagacaaa tgaatggaga 240
cccagagaag agggacaagg cagagaagaa aaaggacaaa gccggaaagg ataagaagaa 300
```

<210> 44
<211> 300
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701517518H1

```
<400> 44
caggatctca cactccctct acagtgggat cgaggggctg gatgagtctc ccaccaggaa 60
tgccgcactc agcaggataa tgggtaaatg ccagctctcc ccaaccgtga acatgccaca 120
tgatgacact gtcattgatt aagatgacag gctgcctgtg ctccctcttc acctctctga 180
ccagtcctcc tccagctccc atgatgacgt gggattcata atgacagaag caggcacgtg 240
ggccaaggct accatcagtg actcagccga ctgctcattg actccagatg ttgatccggt 300
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<210> 45
<211> 544

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<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701834089T1

<220>

<221> unsure

<222> 11-12, 17, 130-191

<223> a, t, c, g, or other

<400> 45

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aaacctgagt nnccttnaca acccaaagta aatttattgt ttggatttta aaaaaacttt 60
ctttgagaca cgtttcgtgt atcccaggct ggcctcgaac actacgtatg caggatgacc 120
ttgaacttcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn ntatagggtg ctggggattg agcccacggc tttgtgtaca ccaggcaggc 240
actctagact gagccacagc ccagacaccg tgctttttaa aaacaattgt gcaacttggt 300
ctgtccaaga cagtttgagt ctggcatgct gttcatctct tctccggctt cagtttggcc 360
aggctgaaca tgtcccccac gcctttcagc atccccttct tggctttcag tttatccttc 420
tccttctctc ggtctttctt cttatccttt ccggctttgt cctttttctt ctctgccttg 480
tccctcttct ctgggtctcc attcatttgt ctctccagag aataggaagg ctgatcactg 540
gacg 544
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<210> 46

<211> 196

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701480437H1

<400> 46

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ctctctctct ctcatccttg actgactaac ttctttgctt tattgccaga caaagcagga 60
agaatgccag ctctgtatca caggattcct gggaacagaa ctacgccctt ggtgaaggct 120
tccagagtgc caaggagaac cccagggtatt ccagttacca gggctccagg aacggctatc 180
taggtggcca tggctt 196
```

<210> 47

<211> 273

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701190235H1

<400> 47

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gcagatgtaa cgagttgcgg tctcctggga gccccgctgc acccgatctg cccatacaaa 60
cagagttgga tgacagacaa cgcaggatct cacactccct ctacagtggg atcgatgggc 120
tggatgagtc tcccaccagg aatgccgcac tcagcaggat aatgggtaaa tgccagctct 180
ccccaccgt gaacatgcta catgatgaca ctgtcatgat tgaagatgac aggctgcctg 240
tgctcactcc tcacctctct gaccagtcct cct 273
```

<210> 48

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<211> 248
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700939688H1

<400> 48
cagagaagag ggacaaggca gagaagaaaa aggacaaagc cggaaaggat aagaagaaag 60
accgagagaa ggagaaggat aaactgaaag ccaagaaggg gatgctgaaa ggcttggggg 120
acatgttcag cctggccaaa ctgaagccgg agaagagatg aacagcatgc cagactcaaa 180
ctgtcttgga cagcacaagt tgcacaattg ttttttaaaa gcacggtgtc tgggctgtgg 240
ctcagtct 248

<210> 49
<211> 351
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700939688F6

<220>
<221> unsure
<222> 337
<223> a, t, c, g, or other

<400> 49
cagagaagag ggacaaggca gagaagaaaa aggacaaagc cggaaaggat aagaagaaag 60
accgagagaa ggagaaggat aaactgaaag ccaagaaggg gatgctgaaa ggcttggggg 120
acatgttcag cctggccaaa ctgaagccgg agaagagatg aacagcatgc cagactcaaa 180
ctgtcttgga cagcacaagt tgcacaattg ttttttaaaa gcacggtgtc tgggctgtgg 240
ctcagtctag aagatgcctg cctggctgta cacaagagcc agtggagctc aagtccccag 300
acagccctat agaaccagcg tgtggtagac acatgcncctg tcatcccagc a 351

<210> 50
<211> 571
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702582937T1

<400> 50
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agggacatcg acaggtcctc gagtgggatg gctctccttc tgtttgtgaa taaacagcag 180
agtcactcag taatgttggc ctgcgtcaggc cgggacatgg tatgaggata taggagacca 240
aatcctgact gcaacctcaa aagctgtggt gaggttgatt ctcagaatcc caagtgactg 300
acctttttcc ttgatccac tctgtgcctc ccttgacaac ctacggtgac acgaagtaaa 360
gtaaggactg gatagaccgg cctaagctcc tccagagagt cttccctcag actcctatct 420
ccttcctcgg ggtgcgtaca catggggccac tcccatgccc cttgttcccg agtgtcatga 480
gtgactgaaa ctgaacgcat gtacttatag aaccactgac tagaaatcgg ctgtagatat 540

gggtgggtgg agttataaag ggcagttgga a

571

<210> 51
 <211> 694
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 700299037F6

<400> 51
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 tttataagta catgcgttca gtttcagtca ctcatgacac tcgggaacaa ggggcatggg 180
 agtggcccat gtgtacgcac cccgaggaag gagataggag ctgaggggaag actctctgga 240
 ggagcttagg ccggtctatc cagtccttac tttacttcgt gtcaccgtag gttgtcaagg 300
 gaggcacaga gtgggacaag gaaaaaggtc agtcacttgg gattctgaga atcaacctca 360
 acacagcttt tgagggttgca gtcaggattg gtctcctata tcctcatacc atgtcccgac 420
 ctgacgagggc caacattact gagtgaactct gctgtttatt cacaacaga aggagagcca 480
 tcccactcga ggacctgtcg atgtccctct gagcaccggg agtcccattc tccgtgcatg 540
 cctgtggcac gaggcctcgc tgttcccgcc gttcatctgt tgggtctgaac atcctgtatg 600
 taaaccaagg ctgggttgct aaagtgcctg agaatctcga tataaaaaac aaaaaacaaa 660
 aaaatccttg gggcaaaagc tcagagtacc atgt 694

<210> 52
 <211> 110
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 701246488H1

<400> 52
 gattgaagat gacagggtgc ctgtgctccc tcctgacctc tctgaccagg cgtcctccag 60
 ctcccatgat gacgtgggat tcataatgac agaagcaggc acgtgggcca 110

<210> 53
 <211> 578
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <223> Incyte ID No: 702759912H1

<400> 53
 atgaaagtga ccgtgtgctt cgggcggacc cgggtggtcg tgccgtgcgg ggacgggcac 60
 atgaaagttt tcagcctcat ccagcaagcg gtgaccgct accggaaggc catcgccaag 120
 gatccaaact actggataca ggtgcaccga cttgaacatg gagatggagg aatactagac 180
 cttgatgaca ccctctgtga tgtagcagat gataaagaca gactggtagc agtgtttgat 240
 gagcaagatc cacatcatgg aggtgatggc accagtgcc gctccacagg taccagagt 300
 ccagagatat ttggcagtga gcttggcacc aacaatgttt cagcctttca gccttatcaa 360
 gctacaagtg aaattgaggt cacaccttca gttcttcgtg caaatatgcc tcttcatgtc 420
 cgacgaagca gtgaccgggc ttttaattggc ctttcaactt ccatcagtga cactaatttt 480

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ccttctgaag agccttcacg gaagaacccc acacgttggt caacaacagc tggctttctg 540
aagcaaaaca ctgctggcag ccctaatact gtgacaaa 578

<210> 54
<211> 293
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 700112340H1

<400> 54
gggcatttga ctgagatgtc ccaaaggtgc ctattggaag agcattatga tccaaactac 60
tggatacagg tgcacgctt ggagcatgga gatggaggga ttctagacct ggatgacatc 120
ctctgtgacg ttgctgatga caaagacaga ctggtagcag tatttgatga acaggatccc 180
caccatggag gagatggtac cagcgccagc tccacgggaa cccagagtcc agagatattc 240
ggcagtggagc tgggcaccaa caatgtttct gcttttcagc cttatcaagc cac 293

<210> 55
<211> 233
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 700827810H1

<400> 55
cgcggccggc atcgcagagt ggtcggcact cgggtgtccgt ggaggttcaa gtacaacggc 60
agcgccagga ggagcgagag agcttccagc agggccagcg ccagtacagc tcaactgcaa 120
gacaaagcag gaagaatgcc agctccatat cacaggattc ctgggaacag aagagtgaag 180
aatcttttgg gcaagtatgg ccctagcagt gtagaagaca ccacaggaag tgg 233

<210> 56
<211> 222
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 700109331H1

<400> 56
gggcatctca aatgcaagga aaactaatct ttttgccaaa ttgacacttt gtaaatttat 60
tttctctatt gctaaaaata aaatagacat gtgtttggga ccctgagtct catcccgaag 120
catccgaacc ttactcaaag aatcatggag attgtactca ctacctaaat ccatgctttt 180
tgattttcgt gttttaacga aatccaattg actggcatct ga 222

<210> 57
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

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<223> Incyte ID No: g6661750

<400> 57

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tctggggccca cccgccccgg ggcgtctccg agagtggggg ctgcgcccgc ggggtcagac 120
acctgttcgg cccggccccg cgtgggtcgcc gggggccagg atgaaagtga ccgtgtgctt 180
cggcaggacg ggcacgtgg tgccctgcaa ggagggccag ctgcgcgtcg gcgagctcac 240
ccagcaggcg ctgcagcggg acctgaagac ccgggagaag ggtcctgggt actgggtgaa 300
gattcatcac ttagaatata cagatggagg aatcctggat ccagatgatg tcttggcaga 360
tgttgttga                                     369
```

<210> 58

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: GNN.g10801482_004.edit

<400> 58

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gccccggccg cacatgggtc gaggccgagg ctgcaatgag agcttttagag cagccattga 60
caaatcctac gatggacctg aagaaataga agctgacggt ctgtctgata agagctctca 120
ctctggccaa ggagctctga attgtgagtc tgccccctcag gggaattcgg agctagagga 180
catgggaaat aaagccagga aagtcaaaaa aacgaaagag aaggagaaga aaaaggaaaa 240
gggcaaattg aaagtcaagg agaaaaagcg caaagaggag aatgaagatc cagaaaggaa 300
aataaagaag aagggtcttcg ggcgccatgct gaggtatggg cctgctttga aggcaaagt 360
ggttctcatt ttgtctctcc tgaaaaaagc gcacgctttt cctcgtcttc agccaaatgc 420
atacggctct caattctgtg ctctgtctct ttctgcagag gcagaggagc tttttgggga 480
aagttacagt gatgacagga cactgtctta a                                     511
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<210> 59

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g6993427

<400> 59

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ccagttttat ctttttttct atcagtcctta tcacctttct cttgggtttcc attcatttgt 60
ctctccagag agtgggaagg ctgatcactg gctgtggata cagactctct ccctgatctt 120
gaactttctt ctgtgtcttc ttccaaggtc tccatgcctt catcatcatc atctaccacg 180
ggtttatcat aagatttgtc gatggcagct ctgaagctct cattgcatcc cctgcctctg 240
attatccgcg gccgtggacg atggaaagga atatcccat tcaaagtcac ctcggaact 300
gcggtctgca gactctccaa cgagcttgac ttcttcagac ccagggaagg acccacatct 360
ctgctgggag aacctgcttt ctggtcatcc actgtattga gtttagtctc gtcagctata 420
cctaaatcca tgctttttga ttttcgtgtt ttaacgaaat ccaattgact ggcactctgaa 480
aattgctttg tgcgtttttc tgacatactc tgacgtccaa atccttctcg ttgaaaagca 540
agaactggat caacatctgg actcaaagag cagtcgggtg aatcactgat t                                     591
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<210> 60

<211> 389

<212> DNA

<213> Homo sapiens

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<220>

<221> misc_feature

<223> Incyte ID No: g5529915

<400> 60

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ttttttttca gttttatcct tttttctatc agtcttatca cttttctctt ggtttccatt 60
catttgtctc tccagagagt gggaaggctg atcactggct gtggatacag actctctccc 120
tgatcttgaa cttttctctg tgtcttcttc caaggctctc atgccttcat catcatcatc 180
taccgcggtt ttatcataag atttgtcgat ggcagctctg aagctctcat tgcacccctt 240
gcctctgatt atccgcggtc gtggacgatg gaaaggaata tccccattca aagtcacctc 300
ggcaactgcg gtctgcagac tctccaacga gcttgacttc ttcagacca gggaaggacc 360
cacatctctg ctggggagaac ctgctttct 389
```

<210> 61

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g1733437

<400> 61

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ggaaaccaag agaaagggtga taagactgat agaaaaaagg ataaaactgg aaaagaaaag 60
aagaaagata gagataagga gaaggataaa atgaaagcca agaagggaat gctgaagggc 120
ttgggagaca tggttcagggt tggcaaacat cgaaaagatg acaagattga gaaaacgggt 180
aaaataaaaa tacaggaatc ctttacatca gaagaggaga ggatacgaat gaagcaggag 240
caggagagga ttcaagccaa aactcgagaa tttagggaac cgacaagctc gagagcgtga 300
ctatgctgaa attcaagatt ttcacgagac atttggctgt gatgatgagt taatgtatgg 360
gggagtt 367
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<210> 62

<211> 1337

<212> PRT

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: g3868778

<400> 62

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1 5 10 15
Cys Gly Asp Gly Arg Met Lys Val Phe Ser Leu Ile Gln Gln Ala
20 25 30
Val Thr Arg Tyr Arg Lys Ala Val Ala Lys Asp Pro Asn Tyr Trp
35 40 45
Ile Gln Val His Arg Leu Glu His Gly Asp Gly Gly Ile Leu Asp
50 55 60
Leu Asp Asp Ile Leu Cys Asp Val Ala Asp Asp Lys Asp Arg Leu
65 70 75
Val Ala Val Phe Asp Glu Gln Asp Pro His His Gly Gly Asp Gly
80 85 90
Thr Ser Ala Ser Ser Thr Gly Thr Gln Ser Pro Glu Ile Phe Gly
95 100 105
Ser Glu Leu Gly Thr Asn Asn Val Ser Ala Phe Arg Pro Tyr Gln
```

Thr Thr Ser Glu	110	115	120
Ile Glu Val Thr Pro Ser Val Leu Arg Ala Asn			
Met Pro Leu His	125	130	135
Val Arg Arg Ser Ser Asp Pro Ala Leu Thr Gly			
Leu Ser Thr Ser	140	145	150
Val Ser Asp Asn Asn Phe Ser Ser Glu Glu Pro			
Ser Arg Lys Asn	155	160	165
Pro Thr Arg Trp Ser Thr Thr Ala Gly Phe Leu			
Lys Gln Asn Thr	170	175	180
Thr Thr Gly Ser Pro Lys Thr Cys Asp Arg Lys Lys			
Asp Glu Asn Tyr	185	190	195
Arg Ser Leu Pro Arg Asp Pro Ser Ser Trp Ser			
Asn Gln Phe Gln	200	205	210
Arg Asp Asn Ala Arg Ser Ser Leu Ser Ala Ser			
His Pro Met Val	215	220	225
Asp Arg Trp Leu Glu Lys Gln Glu Gln Asp Glu			
Glu Gly Thr Glu	230	235	240
Glu Asp Ser Ser Arg Val Glu Pro Val Gly His			
Ala Asp Thr Gly	245	250	255
Leu Glu Asn Met Pro Asn Phe Ser Leu Asp Asp			
Met Val Lys Leu	260	265	270
Val Gln Val Pro Asn Asp Gly Gly Pro Leu Gly			
Ile His Val Val	275	280	285
Pro Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly			
Leu Leu Val Lys	290	295	300
Arg Leu Glu Lys Gly Gly Lys Ala Glu Gln Glu			
Asn Leu Phe His	305	310	315
Glu Asn Asp Cys Ile Val Arg Ile Asn Asp Gly			
Asp Leu Arg Asn	320	325	330
Arg Arg Phe Glu Gln Ala Gln His Met Phe Arg			
Gln Ala Met Arg	335	340	345
Ala Arg Val Ile Trp Phe His Val Val Pro Ala			
Ala Asn Lys Glu	350	355	360
Gln Tyr Glu Gln Leu Ser Gln Arg Glu Met Asn			
Asn Tyr Ser Pro	365	370	375
Gly Arg Phe Ser Pro Asp Ser His Cys Val Ala			
Asn Arg Ser Val	380	385	390
Ala Asn Asn Ala Pro Gln Ala Leu Pro Arg Ala			
Pro Arg Leu Ser	395	400	405
Gln Pro Pro Glu Gln Leu Asp Ala His Pro Arg			
Leu Pro His Ser	410	415	420
Ala His Ala Ser Thr Lys Pro Pro Thr Ala Pro			
Ala Leu Ala Pro	425	430	435
Pro Asn Val Leu Ser Thr Ser Val Gly Ser Val			
Tyr Asn Thr Lys	440	445	450
Arg Val Gly Lys Arg Leu Asn Ile Gln Leu Lys			
Lys Gly Thr Glu	455	460	465
Gly Leu Gly Phe Ser Ile Thr Ser Arg Asp Val			
Thr Ile Gly Gly	470	475	480
Ser Ala Pro Ile Tyr Val Lys Asn Ile Leu Pro			
Arg Gly Ala Ala	485	490	495
Ile Gln Asp Gly Arg Leu Lys Ala Gly Asp Arg			
Leu Ile Glu Val	500	505	510
Asn Gly Val Asp Leu Ala Gly Lys Ser Gln Glu			
Glu Val Val Ser	515	520	525
Leu Leu Arg Ser Thr Lys Met Glu Gly Thr Val			

Ser Leu Leu Val	530	535	540
Phe Arg Gln Glu Glu	545	Ala Phe His Pro Arg	Glu
Met Asn Ala Glu	560	550	555
Pro Ser Gln Met Gln	575	Ser Pro Lys Glu Thr	Lys
Ala Glu Asp Glu	590	565	570
Asp Ile Val Leu Thr	580	Pro Asp Gly Thr Arg	Glu
Phe Leu Thr Phe	595	585	590
Glu Val Pro Leu Asn	605	Asp Ser Gly Ser Ala	Gly
Leu Gly Val Ser	620	595	600
Val Lys Gly Asn Arg	610	Ser Lys Glu Asn His	Ala
Asp Leu Gly Ile	625	615	620
Phe Val Lys Ser Ile	640	Ile Asn Gly Gly Ala	Ala
Ser Lys Asp Gly	655	625	630
Arg Leu Arg Val Asn	670	Asp Gln Leu Ile Ala	Val
Asn Gly Glu Ser	685	640	645
Leu Leu Gly Lys Ala	660	Asn Gln Glu Ala Met	Glu
Thr Leu Arg Arg	675	655	660
Ser Met Ser Thr Glu	690	Gly Asn Lys Arg Gly	Met
Ile Gln Leu Ile	705	670	675
Val Ala Arg Arg Ile	720	Ser Arg Cys Asn Glu	Leu
Arg Ser Pro Gly	735	685	690
Ser Pro Ala Ala Pro	750	Glu Leu Pro Ile Glu	Thr
Glu Leu Asp Asp	765	700	705
Arg Glu Arg Arg Ile	780	Ser His Ser Leu Tyr	Ser
Gly Ile Glu Gly	795	715	720
Leu Asp Glu Ser Pro	810	Thr Arg Asn Ala Ala	Leu
Ser Arg Ile Met	825	725	730
Gly Glu Ser Gly Lys	840	730	735
Cys Gln Leu Ser Pro	855	740	750
Val Asn Met Pro	870	745	765
His Asp Asp Thr Val	885	760	775
Met Ile Glu Asp Asp	900	775	780
Leu Pro Val Leu	915	785	795
Pro Pro His Leu Ser	930	790	795
Asp Gln Ser Ser Ser	945	800	810
Ser His Asp Asp	960	805	815
Val Gly Phe Ile Met	975	820	825
Thr Glu Ala Gly Thr	990	835	840
Ala Lys Ala Thr	1005	845	855
Ile Ser Asp Ser Ala	1020	860	870
Asp Cys Ser Leu Ser	1035	865	875
Pro Thr Arg Thr	1050	880	885
Ala Gly Phe Gly	1065	895	900
Arg Glu Gly Phe Gly	1080	905	915
Gln Ser Met Ser	1095	910	920
Glu Lys Arg Thr Lys	1110	925	930
Gln Phe Ser Asn Ala	1125	935	945
Ser Thr Arg Thr	1140	940	945
Gln Leu Asp Phe	1155	945	950
Val Lys Thr Arg Lys	1170	950	955
Ser Lys Ser Met Asp	1185	955	960
Gly Ile Ala Asp	1200	960	965
Glu Thr Lys Leu Asn	1215	965	970
Thr Val Asp Asp Gln	1230	970	975
Ala Gly Ser Pro	1245	975	980
Asn Arg Asp Val Gly	1260	980	985
Lys Ser Ser Ser	1275	985	990
Leu Glu Ser Leu Gln	1290	990	995
Thr Ala Val Ala Glu	1305	995	1000
Thr Leu Asn Gly	1320	1000	1005
Asn Ile Pro Phe His	1335	1005	1010
Arg Pro Arg Pro Arg	1350	1010	1015
Ile Arg Gly Arg	1365	1015	1020
Gly Cys Asn Glu Ser	1380	1020	1025
Phe Arg Ala Ala Ile	1395	1025	1030
Lys Ser Tyr Asp	1410	1030	1035
Lys Pro Met Val Asp	1425	1035	1040
Asp Asp Asp Glu Gly	1440	1040	1045
Glu Thr Leu Glu	1455	1045	1050
Glu Asp Thr Glu Glu	1470	1050	1055
Ser Ser Arg Ser Gly	1485	1055	1060
Arg	1500	1060	1065

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	950		955		960
Glu Ser Val Ser	Thr Ser Ser Asp Gln Pro Ser Tyr Ser Leu Glu				
	965		970		975
Arg Gln Met Asn Gly Asp Pro Glu Lys Arg Asp Lys Ala Glu Lys					
	980		985		990
Lys Lys Asp Lys Ala Gly Lys Asp Lys Lys Lys Asp Arg Glu Lys					
	995		1000		1005
Glu Lys Asp Lys Leu Lys Ala Lys Lys Gly Met Leu Lys Gly Leu					
	1010		1015		1020
Gly Asp Met Phe Arg Phe Gly Lys His Arg Lys Asp Asp Lys Met					
	1025		1030		1035
Glu Lys Met Gly Arg Ile Lys Ile Gln Asp Ser Phe Thr Ser Glu					
	1040		1045		1050
Glu Asp Arg Val Arg Met Lys Glu Glu Gln Glu Arg Ile Gln Ala					
	1055		1060		1065
Lys Thr Arg Glu Phe Arg Glu Arg Gln Ala Arg Glu Arg Asp Tyr					
	1070		1075		1080
Ala Glu Ile Gln Asp Phe His Arg Thr Phe Gly Cys Asp Asp Glu					
	1085		1090		1095
Leu Leu Tyr Gly Gly Met Ser Ser Tyr Asp Gly Cys Leu Ala Leu					
	1100		1105		1110
Asn Ala Arg Pro Gln Ser Pro Arg Glu Gly His Leu Met Asp Thr					
	1115		1120		1125
Leu Tyr Ala Gln Val Lys Lys Pro Arg Ser Ser Lys Pro Gly Asp					
	1130		1135		1140
Ser Asn Arg Ser Thr Pro Ser Asn His Asp Arg Ile Gln Arg Leu					
	1145		1150		1155
Arg Gln Glu Phe Gln Gln Ala Lys Gln Asp Glu Asp Val Glu Asp					
	1160		1165		1170
Arg Arg Arg Thr Tyr Ser Phe Glu Gln Ser Trp Ser Ser Ser Arg					
	1175		1180		1185
Pro Ala Ser Gln Ser Gly Arg His Ser Val Ser Val Glu Val Gln					
	1190		1195		1200
Val Gln Arg Gln Arg Gln Glu Glu Arg Glu Ser Phe Gln Gln Ala					
	1205		1210		1215
Gln Arg Gln Tyr Ser Ser Leu Pro Arg Gln Ser Arg Lys Asn Ala					
	1220		1225		1230
Ser Ser Val Ser Gln Asp Ser Trp Glu Gln Asn Tyr Ala Pro Gly					
	1235		1240		1245
Glu Gly Phe Gln Ser Ala Lys Glu Asn Pro Arg Tyr Ser Ser Tyr					
	1250		1255		1260
Gln Gly Ser Arg Asn Gly Tyr Leu Gly Gly His Gly Phe Asn Ala					
	1265		1270		1275
Arg Val Met Leu Glu Thr Gln Glu Leu Leu Arg Gln Glu Gln Arg					
	1280		1285		1290
Arg Lys Glu Gln Gln Leu Lys Lys Gln Pro Pro Ala Asp Gly Val					
	1295		1300		1305
Arg Gly Pro Phe Arg Gln Asp Val Pro Pro Ser Pro Ser Gln Val					
	1310		1315		1320
Ala Arg Leu Asn Arg Leu Gln Thr Pro Glu Lys Gly Arg Pro Phe					
	1325		1330		1335
Tyr Ser					

<210> 63

<211> 1266

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g8037915

<400> 63

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Cys	Gly	Asp	Gly	His	Met	Lys	Val	Phe	Ser	Leu	Ile	Gln	Gln	Ala
				20					25					30
Val	Thr	Arg	Tyr	Arg	Lys	Ala	Ile	Ala	Lys	Asp	Pro	Asn	Tyr	Trp
				35					40					45
Ile	Gln	Val	His	Arg	Leu	Glu	His	Gly	Asp	Gly	Gly	Ile	Leu	Asp
				50					55					60
Leu	Asp	Asp	Ile	Leu	Cys	Asp	Val	Ala	Asp	Asp	Lys	Asp	Arg	Leu
				65					70					75
Val	Ala	Val	Phe	Asp	Glu	Gln	Asp	Pro	His	His	Gly	Gly	Asp	Gly
				80					85					90
Thr	Ser	Ala	Ser	Ser	Thr	Gly	Thr	Gln	Ser	Pro	Glu	Ile	Phe	Gly
				95					100					105
Ser	Glu	Leu	Gly	Thr	Asn	Asn	Val	Ser	Ala	Phe	Gln	Pro	Tyr	Gln
				110					115					120
Ala	Thr	Ser	Glu	Ile	Glu	Val	Thr	Pro	Ser	Val	Leu	Arg	Ala	Asn
				125					130					135
Met	Pro	Leu	His	Val	Arg	Arg	Ser	Ser	Asp	Pro	Ala	Leu	Ile	Gly
				140					145					150
Leu	Ser	Thr	Ser	Val	Ser	Asp	Ser	Asn	Phe	Ser	Ser	Glu	Glu	Pro
				155					160					165
Ser	Arg	Lys	Asn	Pro	Thr	Arg	Trp	Ser	Thr	Thr	Ala	Gly	Phe	Leu
				170					175					180
Lys	Gln	Asn	Thr	Ala	Gly	Ser	Pro	Lys	Thr	Cys	Asp	Arg	Lys	Asp
				185					190					195
Glu	Asp	Gly	Thr	Glu	Glu	Asp	Asn	Ser	Arg	Val	Glu	Pro	Val	Gly
				200					205					210
His	Ala	Asp	Thr	Gly	Leu	Glu	His	Ile	Pro	Asn	Phe	Ser	Leu	Asp
				215					220					225
Asp	Met	Val	Lys	Leu	Val	Glu	Val	Pro	Asn	Asp	Gly	Gly	Pro	Leu
				230					235					240
Gly	Ile	His	Val	Val	Pro	Phe	Ser	Ala	Arg	Gly	Gly	Arg	Thr	Leu
				245					250					255
Gly	Leu	Leu	Val	Lys	Arg	Leu	Glu	Lys	Gly	Gly	Lys	Ala	Glu	His
				260					265					270
Glu	Asn	Leu	Phe	Arg	Glu	Asn	Asp	Cys	Ile	Val	Arg	Ile	Asn	Asp
				275					280					285
Gly	Asp	Leu	Arg	Asn	Arg	Arg	Phe	Glu	Gln	Ala	Gln	His	Met	Phe
				290					295					300
Arg	Gln	Ala	Met	Arg	Thr	Pro	Ile	Ile	Trp	Phe	His	Val	Val	Pro
				305					310					315
Ala	Ala	Asn	Lys	Glu	Gln	Tyr	Glu	Gln	Leu	Ser	Gln	Ser	Glu	Lys
				320					325					330
Asn	Asn	Tyr	Tyr	Ser	Ser	Arg	Phe	Ser	Pro	Asp	Ser	Gln	Tyr	Ile
				335					340					345
Asp	Asn	Arg	Ser	Val	Asn	Ser	Ala	Gly	Leu	His	Thr	Val	Gln	Arg
				350					355					360

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Ala	Pro	Arg	Leu	Asn	His	Pro	Pro	Glu	Gln	Ile	Asp	Ser	His	Ser	
				365					370					375	
Arg	Leu	Pro	His	Ser	Ala	His	Pro	Ser	Gly	Lys	Pro	Pro	Ser	Ala	
				380					385					390	
Pro	Ala	Ser	Ala	Pro	Gln	Asn	Val	Phe	Ser	Thr	Thr	Val	Ser	Ser	
				395					400					405	
Gly	Tyr	Asn	Thr	Lys	Lys	Ile	Gly	Lys	Arg	Leu	Asn	Ile	Gln	Leu	
				410					415					420	
Lys	Lys	Gly	Thr	Glu	Gly	Leu	Gly	Phe	Ser	Ile	Thr	Ser	Arg	Asp	
				425					430					435	
Val	Thr	Ile	Gly	Gly	Ser	Ala	Pro	Ile	Tyr	Val	Lys	Asn	Ile	Leu	
				440					445					450	
Pro	Arg	Gly	Ala	Ala	Ile	Gln	Asp	Gly	Arg	Leu	Lys	Ala	Gly	Asp	
				455					460					465	
Arg	Leu	Ile	Glu	Val	Asn	Gly	Val	Asp	Leu	Val	Gly	Lys	Ser	Gln	
				470					475					480	
Glu	Glu	Val	Val	Ser	Leu	Leu	Arg	Ser	Thr	Lys	Met	Glu	Gly	Thr	
				485					490					495	
Val	Ser	Leu	Leu	Val	Phe	Arg	Gln	Glu	Asp	Ala	Phe	His	Pro	Arg	
				500					505					510	
Glu	Leu	Lys	Ala	Glu	Asp	Glu	Asp	Ile	Val	Leu	Thr	Pro	Asp	Gly	
				515					520					525	
Thr	Arg	Glu	Phe	Leu	Thr	Phe	Glu	Val	Pro	Leu	Asn	Asp	Ser	Gly	
				530					535					540	
Ser	Ala	Gly	Leu	Gly	Val	Ser	Val	Lys	Gly	Asn	Arg	Ser	Lys	Glu	
				545					550					555	
Asn	His	Ala	Asp	Leu	Gly	Ile	Phe	Val	Lys	Ser	Ile	Ile	Asn	Gly	
				560					565					570	
Gly	Ala	Ala	Ser	Lys	Asp	Gly	Arg	Leu	Arg	Val	Asn	Asp	Gln	Leu	
				575					580					585	
Ile	Ala	Val	Asn	Gly	Glu	Ser	Leu	Leu	Gly	Lys	Thr	Asn	Gln	Asp	
				590					595					600	
Ala	Met	Glu	Thr	Leu	Arg	Arg	Ser	Met	Ser	Thr	Glu	Gly	Asn	Lys	
				605					610					615	
Arg	Gly	Met	Ile	Gln	Leu	Ile	Val	Ala	Arg	Arg	Ile	Ser	Lys	Cys	
				620					625					630	
Asn	Glu	Leu	Lys	Ser	Pro	Gly	Ser	Pro	Pro	Gly	Pro	Glu	Leu	Pro	
				635					640					645	
Ile	Glu	Thr	Ala	Leu	Asp	Asp	Arg	Glu	Arg	Arg	Ile	Ser	His	Ser	
				650					655					660	
Leu	Tyr	Ser	Gly	Ile	Glu	Gly	Leu	Asp	Glu	Ser	Pro	Ser	Arg	Asn	
				665					670					675	
Ala	Ala	Leu	Ser	Arg	Ile	Met	Gly	Lys	Tyr	Gln	Leu	Ser	Pro	Thr	
				680					685					690	
Val	Asn	Met	Pro	Gln	Asp	Asp	Thr	Val	Ile	Ile	Glu	Asp	Asp	Arg	
				695					700					705	
Leu	Pro	Val	Leu	Pro	Pro	His	Leu	Ser	Asp	Gln	Ser	Ser	Ser	Ser	
				710					715					720	
Ser	His	Asp	Asp	Val	Gly	Phe	Val	Thr	Ala	Asp	Ala	Gly	Thr	Trp	
				725					730					735	
Ala	Lys	Ala	Ala	Ile	Ser	Asp	Ser	Ala	Asp	Cys	Ser	Leu	Ser	Pro	
				740					745					750	
Asp	Val	Asp	Pro	Val	Leu	Ala	Phe	Gln	Arg	Glu	Gly	Phe	Gly	Arg	
				755					760					765	
Gln	Ile	Ala	Asp	Glu	Thr	Lys	Leu	Asn	Thr	Val	Asp	Asp	Gln	Lys	
				770					775					780	

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Ala	Gly	Ser	Pro	Ser	Arg	Asp	Val	Gly	Pro	Ser	Leu	Gly	Leu	Lys	785	790	795
Lys	Ser	Ser	Ser	Leu	Glu	Ser	Leu	Gln	Thr	Ala	Val	Ala	Glu	Val	800	805	810
Thr	Leu	Asn	Gly	Asp	Ile	Pro	Phe	His	Arg	Pro	Arg	Pro	Arg	Ile	815	820	825
Ile	Arg	Gly	Arg	Gly	Cys	Asn	Glu	Ser	Phe	Arg	Ala	Ala	Ile	Asp	830	835	840
Lys	Ser	Tyr	Asp	Lys	Pro	Ala	Val	Asp	Asp	Asp	Asp	Glu	Gly	Met	845	850	855
Glu	Thr	Leu	Glu	Glu	Asp	Thr	Glu	Glu	Ser	Ser	Arg	Ser	Gly	Arg	860	865	870
Glu	Ser	Val	Ser	Thr	Ala	Ser	Asp	Gln	Pro	Ser	His	Ser	Leu	Glu	875	880	885
Arg	Gln	Met	Asn	Gly	Asn	Gln	Glu	Lys	Gly	Asp	Lys	Thr	Asp	Arg	890	895	900
Lys	Lys	Asp	Lys	Thr	Gly	Lys	Glu	Lys	Lys	Lys	Asp	Arg	Asp	Lys	905	910	915
Glu	Lys	Asp	Lys	Met	Lys	Ala	Lys	Lys	Gly	Met	Leu	Lys	Gly	Leu	920	925	930
Gly	Asp	Met	Phe	Arg	Phe	Gly	Lys	His	Arg	Lys	Asp	Asp	Lys	Ile	935	940	945
Glu	Lys	Thr	Gly	Lys	Ile	Lys	Ile	Gln	Glu	Ser	Phe	Thr	Ser	Glu	950	955	960
Glu	Glu	Arg	Ile	Arg	Met	Lys	Gln	Glu	Gln	Glu	Arg	Ile	Gln	Ala	965	970	975
Lys	Thr	Arg	Glu	Phe	Arg	Glu	Arg	Gln	Ala	Arg	Glu	Arg	Asp	Tyr	980	985	990
Ala	Glu	Ile	Gln	Asp	Phe	His	Arg	Thr	Phe	Gly	Cys	Asp	Asp	Glu	995	1000	1005
Leu	Met	Tyr	Gly	Gly	Val	Ser	Ser	Tyr	Glu	Gly	Ser	Met	Ala	Leu	1010	1015	1020
Asn	Ala	Arg	Pro	Gln	Ser	Pro	Arg	Glu	Gly	His	Met	Met	Asp	Ala	1025	1030	1035
Leu	Tyr	Ala	Gln	Val	Lys	Lys	Pro	Arg	Asn	Ser	Lys	Pro	Ser	Pro	1040	1045	1050
Val	Asp	Ser	Asn	Arg	Ser	Thr	Pro	Ser	Asn	His	Asp	Arg	Ile	Gln	1055	1060	1065
Arg	Leu	Arg	Gln	Glu	Phe	Gln	Gln	Ala	Lys	Gln	Asp	Glu	Asp	Val	1070	1075	1080
Glu	Asp	Arg	Arg	Arg	Thr	Tyr	Ser	Phe	Glu	Gln	Pro	Trp	Pro	Asn	1085	1090	1095
Ala	Arg	Pro	Ala	Thr	Gln	Ser	Gly	Arg	His	Ser	Val	Ser	Val	Glu	1100	1105	1110
Val	Gln	Met	Gln	Arg	Gln	Arg	Gln	Glu	Glu	Arg	Glu	Ser	Ser	Gln	1115	1120	1125
Gln	Ala	Gln	Arg	Gln	Tyr	Ser	Ser	Leu	Pro	Arg	Gln	Ser	Arg	Lys	1130	1135	1140
Asn	Ala	Ser	Ser	Val	Ser	Gln	Asp	Ser	Trp	Glu	Gln	Asn	Tyr	Ser	1145	1150	1155
Pro	Gly	Glu	Gly	Phe	Gln	Ser	Ala	Lys	Glu	Asn	Pro	Arg	Tyr	Ser	1160	1165	1170
Ser	Tyr	Gln	Gly	Ser	Arg	Asn	Gly	Tyr	Leu	Gly	Gly	His	Gly	Phe	1175	1180	1185
Asn	Ala	Arg	Val	Met	Leu	Glu	Thr	Gln	Glu	Leu	Leu	Arg	Gln	Glu	1190	1195	1200

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Gln	Arg	Arg	Lys	Glu	Gln	Gln	Met	Lys	Lys	Gln	Pro	Pro	Ser	Glu
				1205					1210					1215
Gly	Pro	Ser	Asn	Tyr	Asp	Ser	Tyr	Lys	Lys	Val	Gln	Asp	Pro	Ser
				1220					1225					1230
Tyr	Ala	Pro	Pro	Lys	Gly	Pro	Phe	Arg	Gln	Asp	Val	Pro	Pro	Ser
				1235					1240					1245
Pro	Ser	Gln	Val	Ala	Arg	Leu	Asn	Arg	Leu	Gln	Thr	Pro	Glu	Lys
				1250					1255					1260
Gly	Arg	Pro	Phe	Tyr	Ser									
				1265										